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U. S. DEPARTMENT OF AGRICULTURE

# United States Department of Agriculture

## MONTHLY LIST OF PUBLICATIONS

JANUARY 1935

Rs

Any five of the nontechnical publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Breeds of draft horses. G. A. Bell, Bureau of Animal Industry. 17 p., illus. (F. B. 619F., rev.) Price, 5¢.

Neufchâtel and cream cheese: Farm manufacture and use. K. J. Matheson and F. R. Cammack, Bureau of Home Economics. 21 p., illus. (F. B. 960F., rev.) Price, 5¢.

Diseases of cabbage and related plants. J. C. Walker, Bureau of Plant Industry. 29 p., illus. (F. B. 1439F., rev.) Price, 5¢.

Making American cheese on the farm for home consumption. H. L. Wilson, Bureau of Dairy Industry. 18 p., illus. (F. B. 1734F.) Price, 5¢.

Anthrax. W. S. Gochenour, Bureau of Animal Industry. 14 p., illus. (F. B. 1736F.) Price, 5¢.

Bur-clover cultivation and utilization. Roland McKee, Bureau of Plant Industry. 14 p., illus. (F. B. 1741F.) Price, 5¢.

The what and how of hybrid corn. Frederick D. Richey, Bureau of Plant Industry. 14 p., illus. (F. B. 1744F.) Price 5¢.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Cercospora foot rot of winter cereals. Roderick Sprague and Hurley Fellows, Bureau of Plant Industry, in cooperation with the Oregon, Washington, and Idaho Agricultural Experiment Stations. 24 p., illus. (T. B. 428TB.) Price, 10¢.

Cotton root rot as affected by crop rotation and tillage at San Antonio, Tex. George T. Ratliffe, Bureau of Plant Industry. 31 p., illus. (T. B. 436TB.) Price, 10¢.

Policies governing the ownership of return waters from irrigation. Wells A. Hutchins, Bureau of Agricultural Engineering. 48 p., illus. (T. B. 439TB.) Price, 5¢.

The biology of *Cremastus flavoorbitalis* (Cameron), an ichneumonid parasite of the European corn borer. W. G. Bradley and E. D. Burgess, Bureau of Entomology and Plant Quarantine. 16 p., illus. (T. B. 441TB.) Price, 5¢.

Studies on the Mexican fruit fly, *Anastrepha ludens* (Loew). Hugh H. Darby and E. M. Kapp, Bureau of Entomology and Plant Quarantine. 20 p., illus. (T. B. 444TB.) Price, 5¢.

Relation of maturity and handling of Bartlett pears in the Pacific Northwest to quality of the canned product. B. D. Ezell and H. C. Diehl. Bureau of Plant Industry. 24 p., illus. (T. B. 450TB.) Price, 5¢.

Agricultural investigations at the Belle Fourche (S. Dak.) Field Station, 1926-32. Beyer Aune, Bureau of Plant Industry; L. A. Hurst, Bureau of Chemistry



and Soils; and Albert Osenbrug, Bureau of Plant Industry. 53 p., illus. (T. B. 454TB.) Price, 5¢.

Base exchange and related properties of the colloids of soils from the erosion experiment stations. C. S. Slater and H. G. Byers, Bureau of Chemistry and Soils. 20 p. (T. B. 461TB.) Price, 5¢.

#### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Manufacture, composition, and utilization of dairy byproducts for feed. Mayne R. Coe, Bureau of Chemistry and Soils. 16 p., illus. (Cir. 329C.) Price, 5¢.

Cooling milk on the farm with small mechanical outfits. R. P. Hotis, Bureau of Dairy Industry, and J. R. McCalmont, Bureau of Agricultural Engineering. 24 p., illus. (Cir. 336C.) Price, 5¢.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

A plan for the management of brown bear in relation to other resources on Admiralty Island, Alaska. 20 p., illus. (M. P. 195MP.) Price, 5¢.

Cotton and cottonseed. A list of the publications of the United States Department of Agriculture on these subjects, including early reports of the United States Patent Office. Compiled by Rachel P. Lane, Bureau of Plant Industry and Emily L. Day, Bureau of Agricultural Economics. 149 p. (M. P. 203MP.) Price, 15¢.

A low-cutting sled corn cutter. O. K. Hedden, Bureau of Agricultural Engineering. 10 p., illus. (M. P. 212MP.) Price, 5¢.

Treat seed grain. A. G. Johnson, R. J. Haskell, and R. W. Leukel, Bureau of Plant Industry. (M. P. 219MP.) [Folder.] Price, 5¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Revised rules and regulations of the Secretary of Agriculture for carrying out the provisions of the Perishable Agricultural Commodities Act, 1930 (46 Stat. 531), as amended April 13, 1934. (48 Stat. 584.) Bureau of Agricultural Economics. 24 p. (S. R. A.—B. A. E. 121, rev.)<sup>1</sup>

Bureau of Animal Industry, Service and Regulatory Announcements. November 1934. Pp. 95–102. (S. R. A.—B. A. I. 331.) Price, 5¢ each.

Revision of sugarcane quarantine no. 16 (domestic). Effective January 1, 1935. Bureau of Entomology and Plant Quarantine. 1 p. (B. E. P. Q.—Q. 16.)<sup>1</sup>

Dutch elm disease quarantine. Notice of Quarantine No. 70. Revised January 1, 1935. Bureau of Entomology and Plant Quarantine. 2 p. (B. E. P. Q.—Q. 70.)<sup>1</sup>

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 103–142. (N. J., F. D. 22201–22300.) ; Pp. 175–192. (N. J., F. D. 22351–22375.) ; Pp. 193–234. (N. J., F. D. 22376–22475.)<sup>1</sup>

Notices of Judgment under the Insecticide Act. Food and Drug Administration. Pp. 185–202. (N. J., I. F., 1312–1340.)<sup>1</sup>

#### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area

<sup>1</sup> These may be obtained from the issuing bureau.



surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Michigan, Bay County. (Number 6, series 1931.) 30 p. illus. Price, 40¢.

Minnesota, Houston County. (Number 31, series 1929.) 36 p., illus. Price, 35¢.

Nebraska, Sherman County. (Number 5, series 1931.) 35 p., illus. Price, 25¢.

Pennsylvania, Wyoming County. (Number 34, series 1929.) 36 p., illus. Price, 30¢.

#### OTHER PUBLICATIONS

Plant material introduced by the Division of Plant Exploration and Introduction, Bureau of Plant Industry, January 1 to March 31, 1933 (Nos. 101585-102377). 38 p. (Inventory 114.) Price, 5¢.

Report of the Acting Chief of the Bureau of Plant Quarantine, 1934. Avery S. Hoyt. 68 p. Price, 5¢.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 19, no. 1, January 1, 1935. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Crops and markets. Vol. 11, no. 12, December 1934. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscription, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

Experiment station record. Vol. 71, no. 6, December 1934; vol. 72, no. 1, January 1935. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 5, no. 11, November 1934. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Indicate below, by numbers **IN NUMERICAL ORDER**, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelop to United States Department of Agriculture. Office of Information, Washington, D. C. List no more than five publications. If more are desired please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication. Be sure to fill in blank form on reverse side.

Farmer's Bulletins	Leaflets	Other publications



Journal of Agricultural Research. Price \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.<sup>2</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

——— Vol. 48. January 1–June 15, 1934. Title page, contents, and index. Pp. 1145–1157. Price, 5¢.

Monthly weather review. Vol. 62, no. 8, August 1934. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.<sup>2</sup> Not for general distribution.

Public roads. Vol. 15, no. 10, December 1934. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

Weekly weather and crop bulletin. Nos. 1–4, January 1–January 22, 1935. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

#### AGRICULTURAL ADJUSTMENT ADMINISTRATION

The interest of agriculture in reciprocal trade agreements. Address before Land Grant College Association, November 21, 1934. Mordecai Ezekiel. 4 p. (G-29.)<sup>3</sup>

Underconsumption of goods—a challenge to the Nation. Chester C. Davis. 7 p. (G-30.)<sup>3</sup>

Amended code of fair competition for the commercial and breeder hatchery industry. Effective January 16, 1935. Code of Fair Competition Series—Code no. 8. 28 p. (M-44—Amended.) Price, 5¢.

Amendment no. 1 to code of fair competition for grain exchanges and members thereof (Code no. 11). 6 p. (M-55—Amdt. no. 1.)<sup>3</sup>

Amended license for processors of wood turpentine and wood rosin. Effective December 5, 1934. License series—Amended License no. 55. 12 p. (M-62—Amended.)<sup>3</sup>

Amended license for gum-turpentine and gum-rosin processors. Effective December 31, 1934. License series—License no. 37 as amended. 16 p. (M-68 as amended.)<sup>3</sup>

License for California Rice Industry, including marketing agreement (Agreement no. 10) as exhibit A; price fixed by the Secretary of Agriculture for extra fancy, clean, Japan, California rice; and Amendments nos. 1 and 2 to the marketing agreement. License series—License no. 96. 25 p. (M-83.) Price, 5¢.

Marketing agreement and license for citrus fruits grown in the State of Florida, including a national stabilization plan. Marketing agreement series—Agreement no. 55. License series—License no. 95. 52 p. (M-81.) Price, 5¢.

Code of fair competition for the malt industry. Code of Fair Competition Series—Code no. 19. 15 p. (M-82.) Price, 5¢.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.

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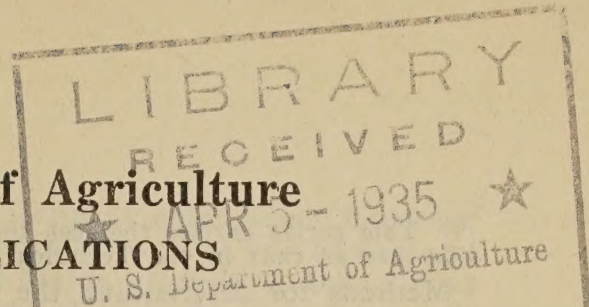


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# United States Department of Agriculture

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### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Apple bitter rot and its control. John W. Roberts and Leslie Pierce, Bureau of Plant Industry. 11 p., illus. (F. B. 938F., rev.) Price, 5¢.

Containers used in shipping fruits and vegetables. H. A. Spilman, and Robert W. Davis, Bureau of Agricultural Economics. 34 p., illus. (F. B. 1579F., rev.) Price, 5¢.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

A revisional study of the genus *Scolytus* Geoffroy (*Eccoptogaster* Herbst) in North America. M. W. Blackman, Bureau of Entomology and Plant Quarantine. 31 p. (T. B. 431TB.) Price, 5¢.

With the beginning of intensive field investigations of certain fir engraver beetles associated with the dying of fir trees, particularly in recreational areas in the Pacific Coast States, it became important that the identity of associated species of *Scolytus* be definitely determined.

Bridge piers as channel obstructions. David L. Yarnell, Bureau of Agricultural Engineering. 52 p., illus. (T. B. 442TB.) Price, 10¢.

This bulletin presents the results of about 2,600 experiments. The investigation was undertaken for the purpose of determining (1) the effect of shape of pier upon the height of backwater caused by the pier, (2) the effect of length of pier upon the height of back water, and (3) the effect of magnitude of channel contraction upon the height of backwater.

The European corn borer and its controlling factors in the Orient. Charles A. Clark, Bureau of Entomology and Plant Quarantine. 38 p., illus. (T. B. 455TB.) Price, 5¢.

This bulletin is based upon the results of investigations of the European corn borer and its parasites in Japan, Manchuria, Chosen, and Taiwan.

The rubber content of two species of *Cryptostegia* and of an interspecific hybrid in Florida. Loren G. Polhamus, Harlan H. Hill, and Joseph A. Elder, Bureau of Plant Industry. 23 p., illus. (T. B. 457TB.) Price, 10¢.

Investigation of the rubber-producing capacity of *Cryptostegia* has included comparisons of the rubber content of the two species and a hybrid, determination of seasonal variation in rubber content, and determination of individual plant yields.

Histological characters of flax roots in relation to resistance to wilt and root rot. Lytton W. Boyle, Bureau of Plant Industry. 19 p., illus. (T. B. 458TB.) Price, 5¢.

The purpose of the study here reported was to determine whether there was a correlation between histological characters of the roots of certain flax varieties and their relative resistance to fungi that infest the soil of flax fields at Fargo, N. Dak.

Studies of *Exeristes roborator* (Fab.), a parasite of the European corn borer, in the Lake Erie area. W. A. Baker and L. G. Jones, Bureau of Entomology and Plant Quarantine. 27 p., illus. (T. B. 460TB.) Price, 5¢.

A technical study of the biology of the parasite under controlled laboratory conditions, its reaction to meteorological influences, and its seasonal synchronization with its host under controlled field-plat conditions, particularly in that part of the one-generation area at Monroe, Mich.

Seasonal variations in carrying capacity of pastures for dairy cows in milk. T. E. Woodward and R. R. Graves, Bureau of Dairy Industry. 20 p., illus. (T. B. 465TB.) Price, 5¢.

If a pasture is sufficiently good one week, can it be depended upon to be good enough 2 weeks later? What is the difference in carrying capacity of a pasture from one season to another? To throw some light on these questions the writers have presented the available data in this publication.



## CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Methods for determining the hydrogen-ion concentration of soils. E. F. Snyder, Bureau of Chemistry and Soils. 48 p., illus. (Cir. 56C., rev.) Price, 5¢.

Immunity of Viking, a Norwegian red currant, to *Cronartium ribicola* and *C. occidentale* under greenhouse conditions. Glenn Gardner Hahn, Bureau of Plant Industry. 16 p., illus. (Cir. 330C.) Price, 15¢.

This variety has been found to be immune to white pine blister rust under conditions of artificial greenhouse testing over a period of 4 years. A preliminary description is given, together with comparative leaf characters of other varieties.

Walnut blight and its control in the Pacific Northwest. Paul W. Miller, Bureau of Plant Industry. 14 p., illus. (Cir. 331C.) Price, 5¢.

It is the purpose of this circular to give in a brief and nontechnical manner the most essential information now available on walnut blight and its control as worked out under conditions in western Oregon.

Characters useful in distinguishing larvae of *Popillia japonica* and other introduced scarabaeidae from native species. Robert J. Sim, Bureau of Entomology and Plant Quarantine. 20 p., illus. (Cir. 334C.) Price, 5¢.

This circular is intended to present in the simplest way the characters most convenient to use in distinguishing the larvae of *Popillia japonica* and other introduced species from native species which are frequently associated with them.

Field practices affecting the control of cotton root knot in Arizona. C. J. King and Claude Hope, Bureau of Plant Industry. 14 p., illus. (Cir. 337C.) Price, 5¢.

This circular deals with the effects of fallowing, crop rotations, and irrigation on the incidence and severity of cotton root rot at Sacaton field station.

The rusts of cereal crops. H. B. Humphrey, Bureau of Plant Industry; E. C. Stakman, Bureau of Entomology and Plant Quarantine; E. B. Mains, C. O. Johnston, H. C. Murphy, and Wayne M. Bever, Bureau of Plant Industry. 27 p., illus. (Cir. 341C.) Price, 5¢.

The rusts here considered are, according to their hosts or the plants they grow on, as follows: Wheat—stem rust, leaf rust, stripe rust; oats—stem rust and crown rust; barley—stem rust and leaf rust; rye—stem rust and leaf rust; corn—corn rust; and sorghum—sorghum rust.

The waterfowl flyways of North America. Frederick C. Lincoln, Bureau of Biological Survey. 12 p. (Cir. 342C.) Price, 5¢.

In the light of what has been learned about the attachment of birds for their ancestral flyways it is important that sportsmen throughout the country become acquainted with facts concerning each flyway if they are to aid their State and Federal conservation officials in preventing the extermination of the species that use any one of the four major waterfowl migration flyways.

## MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Raising reindeer in Alaska. Lawrence J. Palmer, Bureau of Biological Survey. 41 p., illus. (M. P. 207MP.) Price, 5¢.

In 1920 the Bureau of Biological Survey undertook a study, authorized by Congress, of Alaska's grazing resources, and the working out of improved methods of reindeer herd and range management. This publication presents the latest developments in these studies and furnishes directions for carrying out the improved practices.

## STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Grade, staple length, and tenderability of cotton in the United States, 1928-29 to 1932-33. 112 p. (S. B. 47SB.) Price, 10¢.

## SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.



Regulations governing the sanitary handling and control of hides, skins, fleshings, hide cuttings, parings, glue stock, hair, wool, and other animal byproducts, and hay and straw offered for entry into the United States. Revoking amendment 2 and amending regulations 6 and 16. Bureau of Animal Industry. 2 p. (Amdt. 3 to B. A. I. Order 341.)

Bureau of Animal Industry, Service and Regulatory Announcements. December 1934. Pp. 103-113. (S. R. A.-B. A. I. 332.) Price, 5¢ each.<sup>2</sup>

Notice of lifting quarantine no. 62—Narcissus bulb quarantine. Effective April 1, 1935. Bureau of Entomology and Plant Quarantine. 1 p. (B. E. P. Q.-Q 62.)<sup>1</sup>

Quarantine and other official announcements. Bureau of Entomology and Plant Quarantine. Pp. 59-92. July-September 1934. S. R. A.-B. E. P. Q. 120.)<sup>1</sup>

Notice of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 235-276. (N. J. F. D. 22476-22575.) Pp. 333-348. (N. J., F. D. 22651-22675.)<sup>1</sup>

Notices of judgment under the Insecticide Act. Food and Drug Administration. Pp. 203-213. (N. J., I. F. 1341-1356.)<sup>1</sup>

SOIL SURVEYS

These reports consist of two parts: (1) a soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Michigan, Alger County. (Number 32, series 1929.) 41 p., illus. Price, 40¢.

Michigan, Washtenaw County. (Number 21, series 1930.) 47 p., illus. Price, 35¢.

Oregon, Columbia County. (Number 35, series 1929.) 50 p., illus. Price, 35¢.

OTHER PUBLICATIONS

Canned-meat recipes. Bureau of Home Economics. 1 p. [Folder.]

Report of the Hawaii Agricultural Experiment Station, 1934. 31 p., illus. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase of subscription from the Superintendent of Documents.

Agricultural situation. Vol. 19, no. 2, February 1, 1935. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

Crops and markets. Vol. 12, no. 1, January 1935. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

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**Experiment station record.** Vol. 70, Index number. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

**Extension service review.** Vol. 5, no. 12, December 1934. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Journal of agricultural research.** Price, \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.<sup>2</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 49, no. 9. November 1, 1934. Illus.

**Contents:**

- A cytological study of heterothallism in flax rust. Ruth F. Allen. (G-933)
- Influence of soil moisture on longevity of cotton root-rot sclerotia (G-934). C. J. King and E. D. Eaton.
- Aberrations in the chemical composition of peas from plants affected with root rot. (N. Y. (Geneva)-11). Z. I. Kertesz, J. G. Horsfall, and A. H. Rouse.
- A comparison of methods of botanical analysis of the native prairie in western North Dakota. (N. Dak.-9.) Herbert C. Hanson.
- Cotton crop losses from *Phymatotrichum* root rot (Tex.-11). Walter N. Ezekiel and J. J. Taubenhaus.

**Public roads.** Vol. 15, no. 11, January 1935. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

**Weekly weather and crop bulletin.** Nos. 5-9, January 29-February 26, 1935. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

**AGRICULTURAL ADJUSTMENT ADMINISTRATION**

**Agriculture's interest in America's world trade.** Questions and answers on a vital aspect of America's future. 22 p. Price, 5¢.<sup>2</sup>

**Marketing agreement and license for Connecticut Valley shade-grown tobacco** (U. S. Type 61). Marketing agreement series—agreement no. 28. License series—license no. 28. (M-46.) 17 p. Price, 5¢.<sup>2</sup>

**Marketing agreement and license for shippers of fresh peas and cauliflower grown in the State of Colorado.** Marketing agreement series—agreement no. 56. License series—license no. 97. 28 p. (M-84.)<sup>3</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.

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**MONTHLY LIST OF PUBLICATIONS**

**MARCH-APRIL 1935**

Any five of the nontechnical publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

**FARMERS' BULLETINS**

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Selecting a farm. E. H. Thomson. 22 p., illus. (F. B. 1088F., rev.) Price, 5¢.

Gullies; how to control and reclaim them. C. E. Ramser, Bureau of Agricultural Engineering. 34 p., illus. (F. B. 1234F., rev.) Price, 5¢.

The production of cucumbers in greenhouses. James H. Beattie, Bureau of Plant Industry. 30 p., illus. (F. B. 1320F., rev.) Price, 5¢.

Currants and gooseberries: Their culture and relation to white pine blister rust. George M. Darrow and S. B. Detweiler, Bureau of Plant Industry. 42 p., illus. (F. B. 1398F., rev.) Price, 5¢.

Apple scab. John W. Roberts and Leslie Pierce, Bureau of Plant Industry. 12 p., illus. (F. B. 1478F., rev.) Price, 5¢.

Dehorning, castrating, branding, and marking beef cattle. W. H. Black and V. V. Parr, Bureau of Animal Industry. 12 p., illus. (F. B. 1600F., rev.) Price, 5¢.

Pear growing in the Pacific Coast States. C. F. Kinman and J. R. Magness, Bureau of Plant Industry. 41 p., illus. (F. B. 1739F.) Price, 5¢.

Vetch culture and uses. Roland McKee and H. A. Schoth, Bureau of Plant Industry. 22 p., illus. (F. B. 1740F.) Price, 5¢.

Hotbeds and coldframes. W. R. Beattie, Bureau of Plant Industry. 29 p., illus. (F. B. 1743F.) Price, 5¢.

Subsistence farm gardens. W. R. Beattie, J. W. Roberts, and L. L. Harter, Bureau of Plant Industry; W. H. White, and D. L. Van Dine, Bureau of Entomology and Plant Quarantine. 54 p., illus. (F. B. 1746F.) Price, 5¢.

**TECHNICAL BULLETINS**

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Physiologic specialization in *Puccinia coronata avenae*. H. C. Murphy, Bureau of Plant Industry. 48 p. (T. B. 433T.) Price, 5¢.

Boron in soils and irrigation waters and its effect on plants, with particular reference to the San Joaquin Valley of California. Frank M. Eaton, Bureau of Plant Industry. 132 p., illus. (T. B. 448T.) Price, 20¢.

Life history of lungworms parasitic in swine. Benjamin Schwartz and Joseph E. Alicata, Bureau of Animal Industry. 42 p., illus. (T. B. 456T.) Price, 5¢.

Agricultural investigations on the Newlands (Nev.) reclamation project. E. W. Knight, Bureau of Plant Industry, in cooperation with the Nevada Agricultural Experiment Station. 36 p., illus. (T. B. 464T.) Price, 5¢.



A method of rural land classification. Charles E. Kellogg, Bureau of Chemistry and Soils, and J. Kenneth Ableiter, North Dakota Agricultural Experiment Station. 30 p., illus. (T. B. 469T.) Price, 5¢.

Chemical studies of infertile soils derived from rocks high in magnesium and generally high in chromium and nickel. W. O. Robinson, Glen Edgington, and H. G. Byers, Bureau of Chemistry and Soils. 29 p. (T. B. 471T.) Price, 5¢.

#### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Conservation of wastes from the small-scale slaughter of meat animals. G. P. Walton and R. F. Gardiner, Bureau of Chemistry and Soils. 24 p., illus. (Cir. 63C., rev.) Price, 5¢.

Trading in privileges on the Chicago Board of Trade. Paul Mehl, Grain Futures Administration. 80 p., illus. (Cir. 323C.) Price, 10¢.

General information about the Japanese beetle in the United States. C. H. Hadley and I. M. Hawley, Bureau of Entomology and Plant Quarantine. 23 p., illus. (Cir. 332C.) Price, 5¢.

Sample plots in silvicultural research. Forest Service. 91 p., illus. (Cir. 333C.) Price, 10¢.

Distance of planting Rural New Yorker No. 2 and Triumph potatoes as affecting yield, hollow heart, growth cracks, and second-growth tubers. W. C. Edmundson, Bureau of Plant Industry. 19 p., illus. (Cir. 338C.) Price, 5¢.

Effect of parboiling rough rice on milling quality. Jenkin W. Jones and J. W. Taylor, Bureau of Plant Industry. 15 p., illus. (Cir. 340C.) Price, 15¢.

Causes of decadence in the old groves of North Dakota. Harold F. Scholz, Forest Service. 38 p., illus. (Cir. 344C.) Price, 5¢.

The Dutch elm disease eradication project: Federal, State, and local cooperation. L. H. Worthley, Bureau of Entomology and Plant Quarantine. 4 p. (Cir. 353C.) Price, 5¢.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Economic and social problems and conditions of the Southern Appalachians. Bureau of Agricultural Economics, Bureau of Home Economics, and Forest Service (in cooperation with the Office of Education, United States Department of Interior, and the agricultural experiment stations of Tennessee, Virginia, West Virginia, and Kentucky. 184 p., illus. (M. P. 205MP.) Price, 50¢.

A naval stores handbook dealing with the production of pine gum or oleoresin. Forest Service, Bureau of Entomology and Plant Quarantine, and Bureau of Plant Industry. 201 p., illus. (M. P. 209MP.) Price, 20¢.

Soil blowing and dust storms. Charles E. Kellogg, Bureau of Chemistry and Soils. 11 p., illus. (M. P. 221MP.) Price, 5¢.

The direct marketing of hogs. Bureau of Agricultural Economics. 230 p., illus. (M. P. 222MP.) Price, 20¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Bureau of Animal Industry, Service and Regulatory Announcements. January 1935. Pp. 1-10. (S. R. A.-B. A. I. 333.); February 1935. Pp. 11-20 (S. R. A.-B. A. I. 334.) Price, 5¢ each.<sup>2</sup>

Modification of nursery stock, plant, and seed quarantine regulations. Effective January 14, 1935. Bureau of Entomology and Plant Quarantine. 3 p. (B. E. P. Q.-Q. 37.)<sup>1</sup>

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



- Modification of black stem rust quarantine regulations. Effective February 20, 1935. Bureau of Entomology and Plant Quarantine. 1 p. (B. E. P. Q.-Q. 38).<sup>1</sup>
- Modification of white pine blister rust quarantine regulations. Bureau of Entomology and Plant Quarantine. 2 p. (B. E. P. Q.-Q. 63).<sup>1</sup>
- Dutch elm disease quarantine (domestic). Notice of quarantine no. 71, with regulations. Bureau of Entomology and Plant Quarantine. Effective February 25, 1935. 3 p. (B. E. P. Q.-Q. 71).<sup>1</sup>
- Bureau of Entomology and Plant Quarantine, Service and Regulatory Announcements. October-December 1934. Pp. 93-124. (S. R. A.-B. E. P. Q. No. 121.)<sup>1</sup>
- Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 427-457. (N. J. F. D. 22876-22950.) Pp. 67-94. (N. J. F. D. 23151-23225.)<sup>1</sup>
- Notice of judgment under the regulations of the Naval Stores Act. Food and Drug Administration. 1 p. (N. J., N. S. No. 6.)<sup>1</sup>
- Standards under the Tea Act. Food and Drug Administration, Service and Regulatory Announcements, Tea No. 9. Effective May 1, 1935. 1 p. (S. R. A. T. No. 9.)<sup>1</sup>
- Prosecutions under the interstate clause (sec. 6) of the Federal Seed Act. Bureau of Plant Industry, Service and Regulatory Announcements no. 20. 14 p. (S. R. A.-B. P. I. 20.)<sup>1</sup>

#### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area.

California, the Dixon area. (No. 7, series 1931.) 47 p., illus. Price, 25¢.

Nebraska, Knox County. (No. 25, series 1930.) 51 p., illus. Price, 30¢.

#### OTHER PUBLICATIONS

Index to Publications of the United States Department of Agriculture, 1926-1930.

Mary A. Bradley, Office of Information. 694 p. For sale, \$1.25 (buckram).

Report of the Chief of the Weather Bureau, 1933-34. W. R. Gregg. 157 p. Price, \$1.25 (buckram). For sale only.

Report of the Puerto Rico Agricultural Experiment Station, 1934. 24 p., illus. Price, 5¢.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 19, nos. 3-4, March 1-April 1, 1935. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Crops and markets. Vol. 12, nos. 2-3, February-March 1935. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscription, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



Experiment station record. Vol. 72, nos. 2-4, February-April 1935. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 6, nos. 1-3, January-March 1935. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.<sup>2</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

——— Vol. 49, no. 10. November 15, 1934. Illus.

Contents:

- Sphaceloma perseae* the cause of avocado scab (G-922). Anna E. Jenkins.  
Effects on wheat plants of *Ophiobolus graminis* at different levels in the soil (G-932). Hurley Fellows and C. H. Ficke.  
*Pythium sclerotieichum* n. sp. causing mottle necrosis of sweetpotatoes (G-935). Charles Drechsler.  
Storage of cotton pollen (G-936). George J. Harrison and H. J. Fulton.  
Catalase activity in relation to age and viability of sclerotia of the cotton root-rot fungus (G-937). C. J. King, E. D. Eaton, and Claude Hope.  
Influence of smut infection on plant vigor and other characters in smut-resistant oat varieties (G-938). V. C. Hubbard and T. R. Stanton.  
Methods of obtaining emergence *Tiphia* adults from imported cocoons for use against the Japanese beetle (K-254). H. W. Allen and R. W. Burrell.  
Natural crossing in the pigeonpea (J-4). C. P. Wilsie and Makoto Takahashi.  
Statistical analyses for finding a simple method for estimating the percentage heart rot in Minnesota aspen (Minn.-89). R. M. Brown.  
Some effects of vitamin-A-deficient diets on reproduction of sows (Calif.-70). E. H. Hughes.

——— Vol. 49, no. 11. December 1, 1934. Illus.

Contents:

- Relation of leaf-rust infection to yield, growth, and water economy of two varieties of wheat (G-940). C. O. Johnston and E. C. Miller.  
*Fusarium*-resistant Danish Ballhead cabbage (G-939). J. C. Walker and L. M. Blank.  
Differential response of corn varieties to fertility levels and to seasons (G-943.) G. H. Stringfield and Robert M. Salter.  
The relation of the sugar content and odor of clarified extracts of plants to their susceptibility to attack by the Japanese beetle (K-255). F. W. Metzger, P. A. Van der Meulen, and C. W. Mell.  
Histological studies of a seedling disease of corn caused by *Gibberella moniliformis* (Fla.-12). R. K. Voorhees.  
The utilization of agricultural byproducts in the production of propionic acid by fermentation (Iowa-22). H. G. Wood and C. H. Werkman.  
Effect of dyes on yeast fermentation as influenced by hydrogen-ion concentration (Mo.-12). Esther Adams and William J. Robbins.  
The relation of sexual maturity and egg weight in the domestic fowl (Mo.-13). E. M. Funk.  
The effect of fluorine feeding on the storage of vitamin C in the rat and guinea pig (N. Y. (Cornell)-28). Hazel M. Hauck.

——— Vol. 49, no. 12. December 15, 1934. Illus.

Contents:

- A cytological study of heterothallism in *Puccinia sorghi* (G-942). Ruth F. Allen.  
Studies on the possible origin of physiologic forms of *Sphacelotheca sorghi* and *S. cruenta* (G-923). H. A. Rodenhiser.  
A nematosis of *Amsinckia* caused by a new variety of *Anguillulina dipsaci* (G-941). G. Steiner and C. E. Scott.  
Some microbiological activities affected in manurial control of cotton root rot (G-944). C. J. King, Claude Hope, and E. D. Eaton.  
A study of the cotton root-rot fungus (*Phymatotrichum omnivorum*) in the soil by the cholodny method (G-945). E. D. Eaton and C. J. King.  
Nitrogen fixation studies with fungi and *Actinomyces* (E-57). Franklin E. Allison, Sam R. Hoover, and Herman J. Morris.  
Soil-water movement as affected by confined air (Oreg.-19). W. L. Powers.  
Transmissibility by aphids of the tobacco mosaic virus from different hosts (Wis.-64). Ismé A. Hoggan.

——— Vol. 50, no. 1. Illus.

Contents:

- The utilization of energy-producing nutriment and protein in white and yellow corn and in diets deficient in Vitamins A, D, and G. (Pa.-49). Winfred W. Braman, Alex Black, O. J. Kahlenberg, LeRoy Voris, R. W. Swift, and E. B. Forbes.  
Ergot as a factor in the nutritive value of rye for rats and swine (Minn.-90). D. W. Johnson and L. S. Palmer.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



## Journal of Agricultural Research—Continued.

Vol. 50, no. 1. Illus.—Continued.

## Contents—Continued.

- Field reaction of varieties and selfed lines of corn to different collections of *Ustilago zeae* (Minn.-91). J. J. Christensen and I. J. Johnson.  
 Procedure for rapid calculation of multiple correlation coefficients (N. Mex.-5). G. N. Stroman.  
 Serological studies of swine Erysipelas with particular reference to agglutination (A-164). H. W. Schoening and G. T. Creech.  
 Histological studies of rice leaves infected with *Helminthosporium oryzae* (G-948). E. C. Tullis.  
*Gnomonia nerviseda*, the perfect stage of the fungus that causes the vein spot disease of pecan foliage (G-950). J. R. Cole.

## — Vol. 50, no. 2. January 15, 1935. Illus.

## Contents:

- A physiological study of seasonal changes in the composition of the pecan during fruit development (G-946). Clifford J. B. Thor and Charles L. Smith.  
 A tetraploid hybrid of maize and perennial teosinte (G-947). G. N. Collins and A. E. Longley.  
*Dictyostelium discoideum*, a new species of slime mold from decaying forest leaves (G-954). Kenneth B. Raper.  
 Effect of temperature of artificial drying on digestibility and availability of nutrients in pasture herbage (I-19). R. E. Hodgson, J. C. Knott, R. R. Graves, and H. K. Murer.  
 The thermophilic fermentation of beet pulp (E-58). O. L. Osburn, J. Stritar, and C. H. Werkman.  
 The isolation and distribution of nitrogen in dilute alkali-soluble proteins of healthy Valencia and Washington Navel orange fruits (Calif.-71). W. B. Sinclair, E. T. Bartholomew, and R. D. Nedvidek.  
 The vitamin A content of five varieties of sweetpotato (Tenn.-4). F. L. MacLeod, M. R. Armstrong, M. E. Heap, and L. A. Tolbert.

## — Vol. 50, no. 3. February 1, 1935. Illus.

## Contents:

- Histological characteristics of plants grown in toxic concentrations of boron (G-951). Irma E. Webber.  
 Effect of variations in stand on yield and quality of sugar beets grown under irrigation (G-952). H. E. Brewbaker and G. W. Deming.  
 Studies on properties of the curly-top virus (G-956). C. W. Bennett.  
 Productivity of the camphor scale and the biology of its egg and crawler stages (K-256). C. I. Bliss, A. W. Cressman, and B. M. Broadbent.  
 Biology of the camphor scale and a method for predicting the time of appearance of stages in the field (K-257). A. W. Cressman, C. I. Bliss, L. T. Kessels, and J. O. Dumestre.

## — Vol. 50, no. 4. February 15, 1935. Illus.

## Contents:

- Factors affecting infection and decay of sweetpotatoes by certain storage rot fungi (G-955). J. I. Lauritzen.  
 Variation and correlation in grain yield among 1,500 wheat nursery plots (G-949). Gustav A. Wiebe.  
 Morphology and biology of the wheat jointworm gall (K-258). W. J. Phillips and F. F. Dicke.

Monthly weather review. Vol. 62, no. 12, December 1934. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.<sup>2</sup> Not for general distribution.

Public roads. Vol. 15, no. 12, February; vol. 16, no. 1, March 1935. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

Weekly weather and crop bulletin. Nos. 10-17, March 5-April 23, 1935. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

## AGRICULTURAL ADJUSTMENT ADMINISTRATION

Marketing agreement, amendment to marketing agreement, and amended license for the Florida celery industry. Marketing agreement series—agreement no. 42. License series—License no. 51. (M-59—rev. no. 1.) 27 p. Price, 5¢.<sup>2</sup>

Amended license for distributors of crude gum, cleaned gum, gum turpentine, and/or gum rosin. License series—License no. 78. 10 p. (M-71—rev. 1.)<sup>2</sup>

Marketing agreement for the paper shell pecan industry. Marketing agreement series—Agreement no. 57. (M-85.) 14 p. Price, 5¢.<sup>2</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



Fifty questions and answers on wheat production adjustment. Commodity information series—Wheat Leaflet no. 1. 8 p.<sup>3</sup>

The wheat production adjustment problem after 1935. Commodity information series—Wheat Leaflet no. 2. 5 p.<sup>3</sup>

The facts about wheat. 28 p. illus.<sup>3</sup>

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<sup>3</sup>These may be obtained free upon application to the Agricultural Adjustment Administration.

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OF PAGE 7



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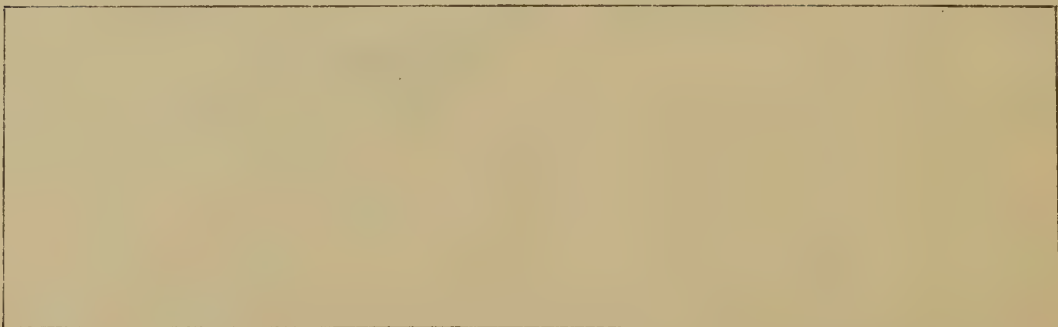
Farmer's Bulletins	Leaflets	Other publications



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United States Department of Agriculture  
MONTHLY LIST OF PUBLICATIONS

MAY-JUNE 1935

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FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

How to detect outbreaks of insects and save the grain crops. W. R. Walton, Bureau of Entomology and Plant Quarantine. 21 p., illus. (F. B. 835F., rev.) Price, 5¢.

Fig growing in the South Atlantic and Gulf States. H. P. Gould, Bureau of Plant Industry. 34 p., illus. (F. B. 1031F., rev.) Price, 5¢.

Tomatoes for canning and manufacturing. James H. Beattie, Bureau of Plant Industry. 18 p., illus. (F. B. 1233F., rev.) Price, 5¢.

Clothes moths and their control. E. A. Back, Bureau of Entomology and Plant Quarantine. 30 p., illus. (F. B. 1353F., rev.) Price, 5¢.

The corn earworm as an enemy of field corn in the Eastern States. W. J. Phillips and George W. Barber, Bureau of Entomology and Plant Quarantine. 18 p., illus. (F. B. 1651F., rev.) Price, 5¢.

Cotton diseases and methods of control. David C. Neal and W. W. Gilbert, Bureau of Plant Industry. 34 p., illus. (F. B. 1745F.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the Leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

The prevention of roundworms in pigs. B. H. Ransom, Bureau of Animal Industry. 8 p., illus. (Leaf. 5L., rev.) Price, 5¢.

Quality guides in buying household blankets. Bess M. Viemont and Margaret B. Hays, Bureau of Home Economics. 8 p., illus. (Leaf. 111L.) Price, 5¢.

Cooking American varieties of rice. Mabel C. Stienbarger. 8 p., illus. (Leaf. 112L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Yields of barley in the United States and Canada, 1927-31. H. V. Harlan, Bureau of Plant Industry; P. Russell Cowan, Dominion of Canada Experimental Farms; and Lucille Reinbach, Bureau of Plant Industry. 80 p. (T. B. 446T.) Price, 10¢.

Composition of the developing asparagus shoot in relation to its use as a food product and as material for canning. C. W. Culpepper and H. H. Moon, Bureau of Plant Industry. 24 p., illus. (T. B. 462T.) Price, 5¢.

Biological and ecological factors in the control of the celery leaf tier in Florida. E. D. Ball, and J. A. Reeves, Florida State Plant Board; and B. L. Boyden and W. E. Stone, Bureau of Entomology and Plant Quarantine. 56 p., illus. (T. B. 463T.) Price, 10¢.

Agriculture in southern Africa. Clifford C. Taylor, Bureau of Agricultural Economics. 342 p., illus. (T. B. 466T.) Price, 30¢.

The crested myna, or Chinese starling, in the Pacific Northwest. Theo. H. Scheffer and Clarence Cottam, Bureau of Biological Survey. 27 p., illus. (T. B. 467T.) Price, 5¢.

Efficacy of anthrax biologics in producing immunity in previously unexposed animals. W. S. Gochenour, H. W. Schoening, C. D. Stein, and W. M. Mohler, Bureau of Animal Industry. 16 p., illus. (T. B. 468T.) Price, 5¢.

Investigations on runner and fruit production of everbearing strawberries. George F. Waldo, Bureau of Plant Industry. 16 p., illus. (T. B. 470T.) Price, 5¢.



- Heavy cottonseed feeding in relation to udder troubles in dairy cows. R. P. Hotis, and T. E. Woodward, Bureau of Dairy Industry. 16 p., illus. (T. B. 473T.) Price, 5¢.
- Marketing apples. J. W. Park and R. R. Pailthorp, Bureau of Agricultural Economics. 82 p., illus. (T. B. 474T.) Price, 10¢.
- Influence of storage temperature and humidity on keeping qualities of onions and onion sets. R. C. Wright, J. I. Lauritzen, and T. M. Whiteman. Bureau of Plant Industry. 38 p., illus. (T. B. 475T.) Price, 5¢.
- Forest improvement measures for the southern Appalachians. Forest Service. 46 p., illus. (T. B. 476T.) Price, 5¢.

#### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

- Variety tests of sugarcanes in Louisiana during the crop year 1932-33. George Arceneaux, I. E. Stokes, and C. C. Krumbhaar, Bureau of Plant Industry. 35 p. (Cir. 343C.) Price, 5¢.
- Barrel and disk seed scarifiers. W. M. Hurst and W. R. Humphries, Bureau of Agricultural Engineering; and Roland McKee, Bureau of Plant Industry. 24 p., illus. (Cir. 345C.) Price, 5¢.
- Insect parasites and predators of insect pests. Curtis P. Clausen, Bureau of Entomology and Plant Quarantine. 22 p., illus. (Cir. 346C.) Price, 5¢.
- Quail-food plants of the Southeastern States. Alec C. Martin, Bureau of Biological Survey. 16 p., illus. (Cir. 348C.) Price, 5¢.
- Notes on the habits of certain coprophagous beetles and methods of rearing them. Arthur W. Lindquist, Bureau of Entomology and Plant Quarantine. 10 p., illus. (Cir. 351C.) Price, 5¢.
- Packaging, curing, and merchandising American cheddar cheese in cans. H. L. Wilson, Bureau of Dairy Industry. 15 p., illus. (Cir. 352C.) Price, 5¢.
- The farm real estate situation, 1933-34. B. I. Stauber and M. M. Regan, Bureau of Agricultural Economics. 44 p., illus. (Cir. 354C.) Price, 5¢.
- The forest-tax problem and its solution summarized. R. Clifford Hall, Forest Service. 18 p. (Cir. 358C.) Price, 5¢.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

- Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1934-35. 124 p. (M. P. 214MP.) Price, 10¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

- Air-oven and water-oven methods specified in the United States official grain standards for determining the moisture content of grain. Bureau of Agricultural Economics. 2 p. (S. R. A.-B. A. E. 147.)<sup>1</sup>
- Regulations governing the meat inspection of the United States Department of Agriculture. Amendment to regulations 16, 17, and 18, B. A. I. Order 211, rev. Bureau of Animal Industry. 2 p. (Amdt. 8 to B. A. I. Order 211, rev.)
- Bureau of Animal Industry, Service and Regulatory Announcements. March 1935. Pp. 21-31 (S. R. A.-B. A. I. 335); April 1935. Pp. 33-44. (S. R. A.-B. A. I. 336.) Price, 5¢. each.
- Bureau of Entomology and Plant Quarantine, Service and Regulatory Announcements, 1934. Index. (S. R. A.-B. E. P. Q. Index, 1934.) 2 p.<sup>1</sup>
- Modification of Mexican fruit worm quarantine regulations. Revision of Regulation 3. Effective March 19, 1935. Bureau of Entomology and Plant Quarantine. 1 p. (B. E. P. Q.-Q. 64, rev.)<sup>1</sup>

<sup>1</sup> These may be obtained from the issuing bureau.



Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 277-331. (N. J., F. D. 22576-22650.); pp. 349-426. (N. J., F. D. 22676-22875); pp 459-494. (N. J., F. D. 22951-23000.); pp. 1-23. (N. J., F. D. 23001-23025); pp. 25-66. (N. J., F. D. 23026-23150); pp. 95-158. (N. J., F. D. 23226-23300.)<sup>1</sup>

### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

- Georgia, Jefferson County. (No. 26, series 1930.) 37 p., illus. Price, 30¢.
- Idaho, Benewah County. (No. 22, series 1930.) 34 p., illus. Price, 45¢.
- Kansas, Woodson County. (No. 8, series 1931.) 30 p., illus. Price, 30¢.
- Kentucky, Mercer County. (No. 23, series 1930.) 59 p., illus. Price, 25¢.
- Oklahoma, Tillman County. (No. 24, series 1930.) 37 p., illus. Price, 35¢.
- Pennsylvania, Tioga County. (No. 30, series 1929.) 47 p., illus. Price, 40¢.
- Texas, Collin County. (No. 32, series 1930.) 26 p., illus. Price, 20¢.
- Texas, Galveston County. (No. 31, series 1930.) 18 p., illus. Price, 35¢.

### OTHER PUBLICATIONS

Regulations relating to game, land fur animals, and birds in Alaska, 1935-36. 32 p., illus. (Alaska G. C. Cir. 12.) Price, 5¢.

### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase of subscription from the Superintendent of Documents.

Agricultural situation. Vol. 19, nos. 5-6, May 1-June 1, 1935. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

Crops and markets. Vol. 12, nos. 4-5, April-May 1935. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

Experiment station record. Vol. 72, no. 5, May 1935. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

Indicate below, by numbers **IN NUMERICAL ORDER**, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelop to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication. Be sure to fill in blank form on reverse side.

Farmers' bulletins	Leaflets	Other publications

<sup>1</sup> See p. 2.

For footnotes 2 and 3 see p. 4.



Extension service review. Vol. 6, no. 4, April 1935. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.<sup>2</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 50, no. 5. March 1, 1935. Illus.

Contents:

Effect of crown rust infection on yield and water requirement of oats (G-957).

H. C. Murphy.

Factors affecting the absorption of selenium from soils by plants (G-959). Annie M. Hurd-Karrer.

Dormancy and maturity of cottonseed (G-960). D. M. Simpson.

Viability of cottonseed as affected by field conditions (G-961). D. M. Simpson and B. M. Stone.

Relation of moisture content and method of storage to deterioration of stored cottonseed (G-962). D. M. Simpson.

A study of some unproductive sports of the Montmorency cherry (Mich.-25). V. R. Gardner.

— Vol. 50, no. 6, March 15, 1935. Illus.

Contents:

Some North American parasites of blowflies (K-259). R. A. Roberts.

*Brachymeria intermedia* (Nees), a primary parasite, and *B. compsilurae* (Cwfd.), a secondary parasite, of the gypsy moth (K-260). Phillip B. Dowden.

*Trichosporium symbioticum*, n. sp., a wood-staining fungus associated with *Scolytus ventralis* (G-958). Ernest Wright.

A comparative study of certain morphological characters of sugarcane × sorgho hybrids (Fla.-13). B. A. Bourne.

The effect of magnesium deficiency on crop plants (Mass.-42). A. B. Beaumont and M. E. Snell.

The susceptibility of flower buds of the Montmorency cherry to injury from low temperature (Mich.-24). (V. R. Gardner.)

Public roads. Vol. 16, nos. 2-3, April-May 1935. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

Weekly weather and crop bulletin. Nos. 18-26, April 30-June 25, 1935. Price, 50¢ a year; domestic, \$1 a year, foreign.<sup>2</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

AGRICULTURAL ADJUSTMENT ADMINISTRATION

Security for the farm home. 11 p. (G-34.)<sup>3</sup>

The drought and current farm imports. 40 p. (G-36.)<sup>3</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.

U. S. DEPARTMENT OF AGRICULTURE  
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# United States Department of Agriculture

## MONTHLY LIST OF PUBLICATIONS

JULY 1935

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Free distribution of technical material and periodicals is restricted.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject matter specialists.

*Apanteles solitarius* (Ratzeburg), an introduced braconid parasite of the satin moth. D. L. Parker, Bureau of Entomology and Plant Quarantine. 18 p., illus. (T. B. 477T.) Price, 5¢.

### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

The disposal by burial of fruit infested with larvae of the Mexican fruit fly. C. C. Plummer and W. E. Stone, Bureau of Entomology and Plant Quarantine. 16 p., illus. (Cir. 349C.) Price, 5¢.

Economic importance of red rot and comparative susceptibility of some sugarcane varieties in the southern United States. E. V. Abbott, Bureau of Plant Industry. 27 p., illus. (Cir. 350C.) Price, 5¢.

### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Directory of the Bureau of Entomology and Plant Quarantine, 1935. Bureau of Entomology and Plant Quarantine. 88 p. (M. P. 220MP.) Price, 10¢.

### SERVICE AND REGULATORY ANNOUNCEMENTS

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Regulations of the Secretary of Agriculture under the United States Grain Standards Act. Effective July 1, 1935. Bureau of Agricultural Economics. 16 p. (S. R. A.-B. A. E. 148.)<sup>1</sup>

Regulations governing the meat inspection of the United States Department of Agriculture. Amendment to regulation 18, B. A. I. Order 211, revised. Bureau of Animal Industry. 1 p. (Amdt. 9 to B. A. I. Order 211, rev.)<sup>1</sup>

Regulations governing the recognition of breeds and purebred animals. Bureau of Animal Industry. 8 p. (B. A. I. Order 350.)<sup>1</sup>

<sup>1</sup> These may be obtained from the issuing bureau.



Regulations governing the importation of domestic livestock and other animals into the United States from all countries except Mexico. Effective on and after August 1, 1935. Bureau of Animal Industry. 11 p. (B. A. I. Order 352.)<sup>1</sup>

Order to prevent the introduction into the United States of rinderpest and foot-and-mouth disease. Effective August 1, 1935. Bureau of Animal Industry. 2 p. (B. A. I. Order 353.)<sup>1</sup>

Bureau of Animal Industry, Index to Service and Regulatory Announcements, January-December 1934. Pp. 115-117.<sup>1</sup> Price, 5¢.

Bureau of Animal Industry, Service and Regulatory Announcements, May 1935. Pp. 45-53. (S. R. A.-B. A. I. 337.) Price, 5¢.

List of intercepted plant pests, 1934. July 1935. Bureau of Entomology and Plant Quarantine. 84 p. (S. R. A.-B. E. P. Q.)<sup>1</sup>

Japanese beetle quarantine. Quarantine no. 48, revision of regulations. Effective June 1, 1935. Bureau of Entomology and Plant Quarantine. 13 p. (B. E. P. Q.-Q. 48.)<sup>1</sup>

Bureau of Entomology and Plant Quarantine, Service and Regulatory Announcements, January-March 1935. Pp. 1-26. (S. R. A.-B. E. P. Q. 122.)<sup>1</sup>

### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Alabama, Perry County. (No. 30, series 1930.) 42 p., illus. Price, 30¢.

Colorado, the Brighton area. (No. 1, series 1932.) 35 p., illus. Price, 20¢.

Iowa, Monroe County. (No. 9, series 1931.) 41 p., illus. Price, 25¢.

Kansas, Neosho County. (No. 33, series 1930.) 26 p., illus. Price, 20¢.

Texas, Randall County. (No. 27, series 1930.) 32 p., illus. Price, 35¢.

### OTHER PUBLICATIONS

Yearbook of agriculture, 1935. Milton S. Eisenhower and Arthur P. Chew. 762 p., illus. For sale only. Price, \$1.00.

### PERIODICALS

\* Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 19, no. 7, July 1, 1935. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.<sup>2</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscription, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

Experiment station record. Vol. 72, no. 6, June 1935. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



**Extension service review.** Vol. 6, nos. 5-6, May-June 1935. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Journal of agricultural research.** Price, \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.<sup>2</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

——— Vol. 49, July 1-December 15, 1934. Title page, contents, and index. Pp. 1243-1253. Price, 5¢.

——— Vol. 50, no. 7, April 1, 1935. Illus.

Contents:

Correlation studies of egg production and possible genetic interpretations (A-165).

Charles W. Knox, Morley A. Jull, and Joseph P. Quinn.

Cytogenetics of tetraploid maize (G-953). L. F. Randolph.

Comparative resistance of five breeds of chickens to the nematode *Ascaridia lineata* (Schneider) (Kans.-75). J. E. Ackert, L. L. Eisenbrandt, J. H. Wilmoth, B. Glading, and I. Pratt.

Inheritance of cold resistance in winter wheat, with preliminary studies on the technic of artificial freezing tests (Ind.-24). W. W. Worzella.

A photoelectric device for the rapid measurement of leaf area (Ind.-25). Robert B. Withrow.

——— Vol. 50, no. 8, April 15, 1935. Illus.

Contents:

A physiological study of development and ripening in the strawberry (G-964).

Charles W. Culpepper, Joseph S. Caldwell, and Hubert H. Moon.

The trend of organic food reserves in alfalfa roots as affected by cutting practices (G-966). C. O. Grandfield.

Yield and chemical composition of certain species of grass (Mass.-41). J. G. Archibald and E. Bennett.

——— Vol. 50, no. 9, May 1, 1935. Illus.

Contents:

Rate of decomposition of organic matter in Norfolk sand as measured by the formation of carbon dioxide and nitrates. (Fla.-14). Charles E. Bell.

The effect of grinding on the digestibility of corn by pigs and on its content of metabolizable energy (Ill.-59). W. P. Garrigus and H. H. Mitchell.

Studies on bean rust caused by *Uromyces phaseoli typica* (G-965). L. L. Harter, C. F. Andrus, and W. J. Zaumeyer.

The microbiological decomposition of the constituents of alfalfa hay (E-59). Max Phillips, M. J. Goss, E. A. Beavens, and L. H. James.

Some factors influencing the yield and mortality of ponderosa pine in the Southwest (F-69). B. R. Lexen.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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Farmer's Bulletins	Leaflets	Other publications



## Journal of agricultural research—Continued.

Vol. 50, no. 10. May 15, 1935. Illus.

## Contents:

- Fungi causing stain in logs and lumber in the Southern States, including five new species (G-963). Ross W. Davidson.
- Effect of annual grass fires on organic matter and other constituents of virgin longleaf pine soils (A-166). S. W. Greene.
- Histological studies of Wisconsin Hollander and Wisconsin Ballhead cabbage in relation to resistance to yellows (Wis.-65). M. E. Anderson and J. C. Walker.
- Nutrient value of the phosphorus in calcined phosphate as determined by growth of plants in greenhouse experiments (E-60). K. D. Jacob, R. P. Bartholomew, B. E. Brown, W. H. Pierre, F. R. Reid, and J. W. Tidmore.
- The phosphorus content and requirements of the flour beetle *Tribolium confusum* Duval, and a study of its needs for vitamin D (Minn.-92). J. W. Nelson and L. S. Palmer.
- Vitamin A content of eggs produced by chickens fed viosterol and various percentages of cod-liver oil (T-7). Grace M. DeVaney, Harry W. Titus, and Ralph B. Nestler.

Vol. 50, no. 11. June 1, 1935. Illus.

## Contents:

- Effect of temperature and light on development of the uredial stage of *Puccinia graminis* (G-967). Leonard W. Melander.
- A new criterion for the comparison of toxicity with respect to concentration and time (E-61). W. A. Gersdorff.
- The quantitative relationship between the constitution and toxicity of some rotenone derivatives (E-62). W. A. Gersdorff.
- Effect of gossypol upon the muscle of the small intestine of the rat (Mich.-26). L. A. Moore.
- A study of the palatability and possible toxicity of 11 species of *Orotalaria*, especially of *O. spectabilis* Roth (Fla.-15). R. B. Becker, W. M. Neal, P. T. Dix Arnold, and A. L. Shealy.
- Classification of chick-embryo positions at different ages and malposition as a cause of mortality (Maine-23). W. Franklin Dove.

— Vol. 50, no. 12, June 15, 1935. Illus.

## Contents:

- Physiological studies of several pathogenic bacteria that induce cell stimulation in plants (Wis.-67). J. A. Pinckard.
- Ovarian development in calves (Wis.-66). L. E. Casida, A. B. Chapman, and I. W. Rupel.
- Effect of fertilizers, soil type, and certain climatic factors on the yield and composition of oats and vetch (Wash.-22). G. O. Baker and S. C. Vandecaveye.
- Pear root concentration in relation to soil-moisture extraction in heavy clay soil (G-968). W. W. Aldrich, R. A. Work, and M. R. Lewis.
- The Mexican bean beetle in Mexico (K-261). B. J. Landis and C. C. Plummer.

Public roads. Vol. 16, nos. 4-5, June-July 1935. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

Weekly weather and crop bulletin. Nos. 27-30, July 2-23, 1935. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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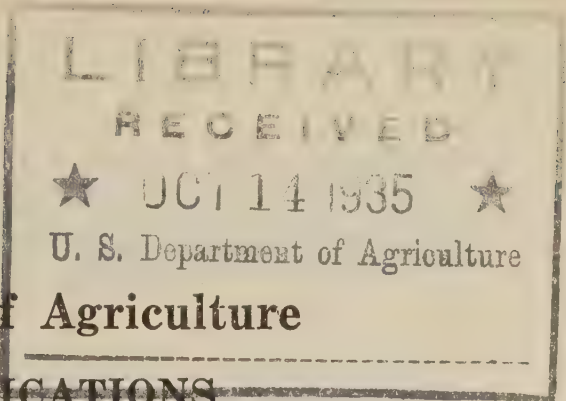
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## United States Department of Agriculture

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#### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Sheep-killing dogs. V. L. Simmons, Bureau of Animal Industry. 37 p., illus. (F. B. 1268F., rev.) Price, 5¢.

Ginning cotton. Charles A. Bennett and F. L. Gerdes. Bureau of Agricultural Economics. 46 p., illus. (F. B. 1748F.) Price, 5¢.

#### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Classification of wheat varieties grown in the United States. J. Allen Clark and B. B. Bayles, Bureau of Plant Industry. 164 p., illus. (T. B. 459T.) Price, 25¢.

Selenium occurrence in certain soils in the United States, with a discussion of related topics. Horace G. Byers, Bureau of Chemistry and Soils. 48 p., illus. (T. B. 482 T.) Price, 5¢.

#### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Effect of cover on surface run-off and erosion in the loessial uplands of Mississippi. H. G. Meginnis, Forest Service. 16 p., illus. (Cir. 347C.) Price, 5¢.

Effects of freezing and cold weather on immature onions. Roy Magruder and Leslie R. Hawthorn, Bureau of Plant Industry. 12 p., illus. (Cir. 355C.) Price, 5¢.

Trapping experiments for the control of the cigarette beetle. W. D. Reed, A. W. Morrill, Jr., and E. M. Livingstone, Bureau of Entomology and Plant Quarantine. 14 p. illus. (Cir. 356C.) Price, 5¢.

The manufacture of brick cheese. H. L. Wilson, Bureau of Dairy Industry; and W. V. Price, University of Wisconsin. 12 p. illus. (Cir. 359C.) Price, 5¢.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Manual of the grasses of the United States. A. S. Hitchcock, Bureau of Plant Industry. 1040 p., illus. (M. P. 200MP.) For sale only. Price, \$1.75.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.



Migratory Bird Treaty Act regulations. Bureau of Biological Survey. 8 p.  
(S. R. A.-B. S. 81.) August 1935.<sup>1</sup>

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 159-260. (N. J., F. D. 23301-23625.)<sup>1</sup>

#### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area.

Michigan, Luce County. (No. 36, series 1929.) 41 p., illus. Price, 30¢.

Oklahoma, Grant County. (No. 10, series 1931.) 33 p., illus. Price, 30¢.

Oklahoma, Texas County. (No. 28, series 1930.) 33 p., illus. Price, 25¢.

#### OTHER PUBLICATIONS

Alaska-Yukon caribou. Olaus J. Murie, Bureau of Biological Survey. 93 p. illus. (N. A. Fauna 54.) Price, 20¢.

Cane molasses as a feed for dairy cows. L. A. Henke. 17 p. (Hawaii Bull. 73.) May be obtained from University of Hawaii only.

Handbook of official United States standards for individual eggs. Effective February 16, 1934. Bureau of Agricultural Economics. 8 p. Price, 5¢.

Parasites and parasitic diseases of horses in Puerto Rico. H. L. Van Volkenberg. 19 p. illus. (P. R. Bull. 37.) Price, 5¢.

Plant material introduced by the Division of Plant Exploration and Introduction, Bureau of Plant Industry, April 1 to June 30, 1933 (Nos. 102378-103406). 51 p. (Inventory 115.) Price, 5¢.

Report on the agricultural experiment stations, 1934. J. T. Jardine and W. H. Beal. 120 p. Price, 10¢.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 19, no. 8, August 1, 1935. Price 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

Crops and markets. Vol. 11, 1934, Index; Vol. 12, no. 7, July 1935. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

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Experiment station record. Vol. 71, Index number; vol. 73, nos. 1-2, July-August 1935. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

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<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



Indicate below, by numbers **IN NUMERICAL ORDER**, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelop to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication. Be sure to fill in blank form on reverse side.

Farmers' Bulletins	Leaflets	Other publications

Journal of agricultural research. Price, \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.<sup>2</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 51, no. 1, July 1, 1935. Illus.

Contents:

The effects, on calcium and phosphorus metabolism in dairy cows, of feeding low-calcium rations for long periods (I-20). Edward B. Meigs, William A. Turner, Edward A. Kane, and Leo A. Shinn.

Response of the woody plants *Hibiscus syriacus*, *Malvaviscus conzattii*, and *Buginvillea glabra* to length of day (G-970). H. A. Allard.

*Pleospora* rot of tomatoes (G-971). G. B. Ramsey.

A chemical investigation of the fermentations occurring in the process of poi manufacture (Hawaii-1). Leonora Neuffer Bilger and Hong Yip Young.

Results of feeding sprouted oats to correct sterility in cattle and swine (Hawaii-2). L. A. Henke.

Study of the removal of spray residues from apples (Pa.-50). Donald E. H. Frear and H. N. Worthley.

The effect of nutritive state on the quantity of vitamin A present in the leaves of the *Coleus blumei* (Iowa-23). E. S. Haber and Pearl P. Swanson.

The phosphorus requirements of dairy heifers (Mass.-43). J. G. Archibald and E. Bennett.

Monthly weather review. Vol. 63, no. 4, April; no. 5, May 1935. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.<sup>2</sup> Not for general distribution.

Public roads. Index to volume 15, March 1934-February 1935. Price, 5¢. Vol. 16, No. 6, August 1935. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

Weekly weather and crop bulletin. Nos. 31-35, July 30-Aug. 27, 1935. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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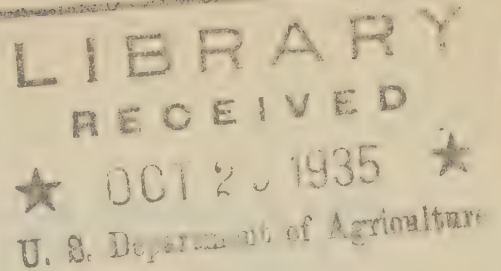
AGRICULTURAL ADJUSTMENT ADMINISTRATION

- G-32. Agricultural adjustment in 1934: A report of administration of the Agricultural Adjustment Act, February 15, 1934 to December 31, 1934. Agricultural Adjustment Administration. 456 p. Price, 30¢.<sup>2</sup>
- G-38. Does foreign competition hurt the American farmer? <sup>3</sup>
- G-39. World peace and agriculture. Chester C. Davis. 10 p.<sup>3</sup>
- G-40. What's ahead of the A. A. A.? Chester Davis. 5 p.<sup>3</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.





## United States Department of Agriculture

### MONTHLY LIST OF PUBLICATIONS

SEPTEMBER 1935

Any five of the nontechnical publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

#### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

**The native persimmon.** W. F. Fletcher, Bureau of Plant Industry. 22 p., illus. (F. B. 685F., rev.) Price, 5¢.

**Greenhouse tomatoes.** James H. Beattie, Bureau of Plant Industry. 28 p., illus. (F. B. 1431F., rev.) Price, 5¢.

**The European corn borer: Its present status and methods of control.** D. J. Caffrey, Bureau of Entomology and Plant Quarantine. 39 p., illus. (F. B. 1548F., rev.) Price, 5¢.

**Spray-residue removal from apples and other fruits.** M. H. Haller, Edwin Smith, and A. L. Ryall, Bureau of Plant Industry. 26 p., illus. (F. B. 1752F.) Price, 5¢.

Up to the present time no spray has been found that is nontoxic to humans, effective in controlling the codling moth, and economically feasible. Until such a spray is found the fruit grower must continue to rely on lead arsenate or other toxic materials and remove the excessive residue.

#### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

**The desert milkweed (*Asclepias subulata*) as a possible source of rubber.** R. E. Beckett and R. S. Stitt, Bureau of Plant Industry. 20 p., illus. (T. B. 472T.) Price, 5¢.

Strains of this milkweed were established in cultivation with seed collected from wild plants growing in the vicinity. This afforded material for cultural and other experiments and for comparisons with wild plants. The nature of these experiments and the results obtained are contained in this bulletin, with notes on the description and distribution of the species.

**The use of carbon disulphide against the Japanese beetle.** W. E. Fleming and F. E. Baker, Bureau of Entomology and Plant Quarantine. 92 p., illus. (T. B. 478T.) Price, 10¢.

In view of the general interest in carbon disulphide for the control of soil-infesting insects, this publication attempts to bring together a summary of the published and unpublished experimental data and the pertinent facts relating to the use of this chemical against the Japanese beetle.

**Organization and management of apiaries producing extracted honey in the white clover region.** R. S. Washburn, Bureau of Agricultural Economics, and G. E. Marvin, Bureau of Entomology and Plant Quarantine; in cooperation with the State College of Agriculture and the Agricultural Experiment Station at Cornell University, the College of Agriculture and the Agricultural Experiment Stations of the Universities of Wisconsin and Minnesota, the State Colleges of Agriculture of Michigan and Iowa, and Ohio State University. 44 p. illus. (T. B. 481T.) Price, 5¢.

This bulletin shows the organization of the extracted honey business in a number of apiaries in the region and the cost of producing extracted honey, and traces the variation from apiary to apiary of some of the factors relative to economy and efficiency in the production of extracted honey.



**Effect of alfalfa and farm manure on yields of irrigated crops in the Great Plains.** Stephen H. Hastings, Bureau of Plant Industry. 40 p. (T. B. 483T.) Price, 5¢.

This publication describes 21 years of experiments with farm manure and alfalfa on subsequent crop yields at the Belle Fourche, Huntley, and Scotts Bluff Field Stations. These stations are located in the northern part of the Great Plains. The crops involved are sugar beets, potatoes, and oats.

#### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

**Slash disposal in ponderosa pine forests of the Southwest.** G. A. Pearson and Arthur C. McIntyre, Forest Service. 29 p., illus. (Cir. 357C.) Price, 5¢.

The purpose of this circular is to assemble information acquired in part by the process of trial and error through years of practice, in part by experimentation and measurement, and in part by analysis of statistics.

**A device for separating different lengths of fibers from seed cotton.** Homer C. McNamara and Robert T. Stutts, Bureau of Plant Industry. 16 p., illus. (Cir. 360C.) Price, 5¢.

The writers have developed a sorter for seed cotton to a point where the general mechanical details have been worked out. It has certain advantages which may prove useful to others and which may be further refined by them through use and experience.

**Removing smut balls from seed wheat.** W. M. Hurst and W. R. Humphries, Bureau of Agricultural Engineering; R. W. Leukel, Bureau of Plant Industry, and E. G. Boerner, Bureau of Agricultural Economics. 16 p., illus. (Cir. 361C.) Price, 5¢.

Little effort has been made to determine the effectiveness of seed-cleaning equipment and methods for removing dockage materials from grain in order to increase its market value. This circular sets forth the possibilities of a number of grain-cleaning devices in this direction.

**Safflower, a possible new oilseed crop for the northern Great Plains and the far Western States.** Frank Rabak, Bureau of Plant Industry. 15 p., illus. (Cir. 366C.) Price, 5¢.

Safflower is suggested as a new dry land and irrigation crop for the production of a drying oil to supplement the supply in the United States of other domestic drying oils, the production of which does not equal the demand. It also seems well adapted to winter dry-land farming in certain sections.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

**Rainfall intensity-frequency data.** David L. Yarnell, Bureau of Agricultural Engineering. 68 p., illus. (M. P. 204MP.) Price, 10¢.

This investigation was made to determine the frequency at which excessive rates of precipitation occur in different sections of the United States, and the intensity and duration of those rates. It is believed that this study has developed data sufficient for predicting with reasonable accuracy the period of recurrence of intense precipitations in any part of the United States.

**Manual on preservative treatment of wood by pressure.** J. D. MacLean. Forest Service. 124 p., illus. (M. P. 224MP.) Price, 15¢.

Discusses the application of the results of certain experiments and observations to the improvement of the pressure treatment of wood and presents general information relating to the subject. Of value to engineers, treating-plant operators, inspectors, and others interested in the preparation of specifications and in the application of pressure-treating processes.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

**Bureau of Animal Industry, Service and Regulatory Announcements.** June 1935. Pp. 55-104. (S. R. A.-B. A. I. 338); July 1935. Pp. 105-116. (S. R. A.-B. A. I. 339.) Price, 5¢ each.<sup>1</sup>

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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Farmers' Bulletins	Leaflets	Other publications

**Text of Federal laws relating to the protection of wildlife.** Bureau of Biological Survey. 20 p. (S. R. A.-B. S. 82.)<sup>2</sup>

**Bureau of Entomology and Plant Quarantine, Service and Regulatory Announcements.** April-June 1935. Pp. 27-47. (S. R. A.-B. E. P. Q. No. 123.)<sup>2</sup>

#### SOIL SURVEYS

These reports consist of two parts: (1) a soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

**Colorado, Longmont area.** (No. 29, series 1930.) 35 p. Price, 40¢.

#### OTHER PUBLICATIONS

**Wood handbook.** Basic information on wood as a material of construction with data for its use in design and specification. Prepared by Forest Products Laboratory, Forest Service. 326 p., illus. Price, 25¢.

This handbook is based chiefly upon the accumulation of information that has resulted from engineering investigations and allied studies conducted by the Laboratory during the past 20 years. Other sources have also been drawn upon freely. Of interest to architects, engineers, manufacturers, and users of woods.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

**Agricultural situation.** Vol. 19, no. 9, September 1, 1935. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.<sup>1</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

**Crops and markets.** Vol. 12, no. 8, August 1935. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

**Daily weather maps.** Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscription, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>1</sup>

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>2</sup> These may be obtained from the issuing bureau.



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Experiment station record. Vol. 73, no. 3, September 1935. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>1</sup>

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 6, no. 9, September 1935. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>1</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.<sup>1</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

— Vol. 51, no. 2, July 15, 1935. Illus.

Contents:

- Principles of snow surveying as applied to forecasting stream flow (Nev.-5). J. E. Church.
- Nemic parasites and associates of the mountain pine beetle (*Dendroctonus monticolae*) in Utah (G-969). Gerald Thorne.
- Studies on the variability of pathogenicity and cultural character of *Gibberella saubinetii* (G-972). Arnold J. Ullstrup.
- Rates of growth and nitrogen assimilation of Havana Seed tobacco (Conn. (New Haven)-5). M. F. Morgan and O. E. Street.
- The digestible nutrients of Napier grass and *Crotalaria intermedia* silages, Natal grass hay, and the dried refusés of grapefruit and orange canneries (Fla.-16). W. M. Neal, R. B. Becker, and P. T. Dix Arnold.
- Bacterial leaf spot of alfalfa (Wis.-68). A. J. Riker, F. R. Jones, and Marguerite C. Davis.
- Calcium cyanamide in relation to control of clubroot of cabbage (Wis.-69). J. C. Walker and R. H. Larson.

Public roads. Vol. 16, no. 7, September 1935. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>1</sup>

Weekly weather and crop bulletin. Nos. 36-39, September 3-24, 1935. Price, 50¢ a year; domestic, \$1 a year, foreign.<sup>1</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

AGRICULTURAL ADJUSTMENT ADMINISTRATION

G-42. Facing the facts in the agricultural situation. 13 p.<sup>2</sup>

G-44. Industry's production policies and the farmer. 8 p.<sup>2</sup>

G-45. America must choose its course in foreign trade. 8 p.<sup>2</sup>

The wheat situation and the 1936-39 wheat production adjustment program. Commodity information series—Wheat Leaflet no. 3. 8 p.<sup>2</sup>

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>2</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.



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# United States Department of Agriculture

## MONTHLY LIST OF PUBLICATIONS

OCTOBER 1935

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Free distribution of technical material and periodicals is restricted.

### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Flaxseed production in the North Central States. A. C. Dillman, Bureau of Plant Industry and T. E. Stoa, North Dakota Agricultural Experiment Station. 18 p., illus. (F. B. 1747F.) Price, 5¢.

This bulletin treats of growing the crop only for the seed, from which linseed oil is made. The coarse straw of seed flax, as usually grown, does not yield a fiber suitable for spinning.

Game laws for the season 1935-36. A summary of Federal, State, and provincial statutes. H. P. Sheldon and Frank G. Grimes, Bureau of Biological Survey. 38 p. (F. B. 1755F.) Price, 5¢.

Constitutes in ready-reference form a convenient synopsis of the laws. Provisions relating to methods of capture, game refuges, enforcement of laws, disposition of fees and fines, and minor matters are omitted, as also are full texts of Federal and Canadian laws and regulations relating to birds and game.

### LEAFLETS

The series carries popular material of the same general character as that carried by the Farmers' Bulletins except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Eliminating bats from buildings. James Silver, Biological Survey. 5 p., illus. (Leaf. 109L.) Price, 5¢.

Bat roosts can usually be eliminated without harm to the bats, either by driving them away with an obnoxious gas or by bat proofing the buildings. This publication describes practical ways of accomplishing this.

### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Food habits of the coyote in Jackson Hole, Wyo. Olaus J. Murie, Bureau of Biological Survey. 24 p. (Cir. 362C.) Price, 5¢.

Efforts were concentrated on the study of the coyote, as the chief natural enemy of the elk in this section, and the present report is the result of investigations over a period of about 4 years.

### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Converting factors and tables of equivalents used in forestry. Forest Service. 59 p., illus. (M. P. 225MP.) Price, 15¢.

The purpose of this handbook is to provide members of the Forest Service with conversion factors and forest measurements that are more or less frequently encountered in forestry literature. These are expressed in tabular form where it appears most advantageous to do so; in the other cases a series of alignment charts have been prepared which permit the direct determination of values in multiple form.



The tobacco and solanum weevils of the genus *Trichobaris*. H. S. Barber, Bureau of Entomology and Plant Quarantine. 28 p., illus. (M. P. 226MP.) Price, 5¢.

The studies herein recorded are the outgrowth of attempts to supply identifications of several forms of the weevil genus *Trichobaris* repeatedly submitted as injurious to tobacco, potato, eggplant, belladonna, *Datura*, and other cultivated solanaceous plants. Useful in connection with efforts to prevent weevil attacks as well as helpful in solving certain taxonomic problems.

Officials and organizations concerned with wildlife protection, 1935. Frank G. Grimes, Biological Survey. 16 p. (M. P. 231MP.) Price, 5¢.

This publication is intended to meet the needs of officials charged with the administration and enforcement of game laws, and for the convenient use of persons desiring to communicate with officials and organizations concerning wildlife conditions throughout the United States and Canada.

#### SOIL SURVEYS

These reports consist of two parts: (1) a soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Kansas, Marion County. (No. 35, series 1930.) 35 p. Price, 35¢.

Texas, Polk County. (No. 36, series 1930.) 37 p. Price, 50¢.

Wisconsin, Crawford County. (No. 34, series 1930.) 39 p. Price, 35¢.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Bureau of Animal Industry, Service and Regulatory Announcements. August 1935. Pp. 117-126. (S. R. A.-B. A. I. 340.) Price, 5¢ each.<sup>2</sup>

Regulations governing the importation of domestic livestock and other animals into the United States from all countries except Mexico. Effective on and after January 1, 1936. Bureau of Animal Industry. 2 p. (Amdt. 1 to B. A. I. Order 352.)<sup>1</sup>

Migratory Bird Treaty Act regulations: 1935. Bureau of Biological Survey. (S. R. A.-B. S. 83.) September 1935. Price, 5¢.

Bureau of Entomology and Plant Quarantine. Service and Regulatory Announcements, 1934. Table of contents, January-December. 2 p. (S. R. A., B. E. P. Q.)<sup>1</sup>

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 1-11. (N. J., F. D. 24001-24025.)<sup>1</sup>

Notices of judgment under the regulations of the Naval Stores Act. Food and Drug Administration. Pp. 1-3. (N. J., N. S. Nos. 7-10.)<sup>1</sup>

Plant material introduced by the Division of Plant Exploration and Introduction, Bureau of Plant Industry, July 1 to September 30, 1933 (Nos. 103407-103776). 19 p. (Inventory 116.) Price, 5¢.

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 19, no. 18, October 1, 1935. Price 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

Crops and markets. Vol. 12, no. 9, September 1935. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

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**Daily weather maps. Limited editions. Not for general distribution.**

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

**Experiment station record. Vol. 73, nos. 4-5, October-November 1935. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>**

A technical view of the world's scientific literature pertaining to agriculture.

**Extension service review. Vol. 6, no. 10, October 1935. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>2</sup>**

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

**Journal of agricultural research. Price, \$3.25 a year domestic; \$4.75 a year foreign. Each issue, 15¢ domestic; 20¢ foreign. Reprints, 5¢ domestic; 8¢ foreign.<sup>2</sup> Not distributed free to individuals.**

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

——— Vol. 50, January 1-June 15, 1935. Title page, contents, and index. Pp. 1003-1014. Price, 5¢.

——— Vol. 51, no. 3. August 1, 1935. Illus.

**Contents:**

A physiological study of cracking in Stayman Winesap apples (W. Va.-9). Leif Verner.

Potato beetle septicemia (K-262). G. F. White.

Rose blast induced by *Phytophthora syringae* (Ark.-20). H. R. Rosen.

Inheritance of resistance to mildew *Erysiphe graminis hordei*, in a cross between Hanna and Atlas barley (Calif.). Fred N. Briggs.

Effect of the stage of maturity and method of curing upon the vitamin B and vitamin G content of alfalfa clover and timothy hays (Ohio-18). Chas H. Hunt, P. R. Record, and R. M. Bethke.

The influence of certain dietary constituents on the response of rats to gossypol ingestion (Okla.-23). Willis D. Gallup and Ruth Reder.

Studies on the nicotine content of cigarette smoke (Pa.-51). C. O. Jensen and D. E. Haley.

The effect of anxins upon *Phytophthora cactorum* (Va.-10). Leon H. Leonian.

**Monthly weather review. Vol. 63, no. 7, July 1935. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.<sup>2</sup> Not for general distribution.**

Contain (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary and (3) climatological tables.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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Soil conservation. Vol. 1, no. 1, August; no. 2, September; no. 3, October 1935. Price, 10¢ a copy; \$1.00 per year, domestic.<sup>2</sup>

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil conservation activities, information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 40-44, October 1-29, 1935. Price, 50¢ a year; domestic, \$1 a year, foreign.<sup>2</sup>

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

AGRICULTURAL ADJUSTMENT ADMINISTRATION

G-41. The processing tax. 12 p.<sup>3</sup>

G-43. World cotton markets. Does the United States Want to Sell More Cotton for Less Money? 8 p.<sup>3</sup>

G-46. Opportunities ahead for rural youth. 8 p.<sup>3</sup>

G-47. Administered price and market price. 8 p.<sup>3</sup>

Shall corn-hog adjustment continue?—Producers will decide! Commodity Information Series—Corn-Hog Leaflet no. 1. 4 p.<sup>3</sup>

The potato situation and an analysis of the Potato Act of 1935. Commodity Information Series—Potato Leaflet no. 1. 6 p.<sup>3</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.



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## MONTHLY LIST OF PUBLICATIONS

NOVEMBER 1935

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Free distribution of technical material and periodicals is restricted.

### FARMERS' BULLETIN

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Summer crops for green manure and soil improvement. Roland McKee, Bureau of Plant Industry. 17 p., illus. (F. B. 1750F.) Price, 5¢.

This bulletin discusses the importance of legumes or other crops in rotations for soil improvement. Such practice is recognized as a means of maintaining soil fertility and insuring increased crop yields.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject matter specialists.

Effects of particle size on the properties and efficiency of fertilizers. A. L. Mehring, L. M. White, and W. H. Ross, Bureau of Chemistry and Soils, and J. E. Adams, Bureau of Plant Industry. 27 p. illus. (T. B. 485T.) Price, 5¢.

The purpose of this bulletin is to give the results of experiments upon the properties of various fertilizers, their behavior during storage, their handling and application to the soil, their movements and reactions in the soil solution, and their efficiency in getting good stands and high crop yields, and then to show so far as possible their interrelationships and significance to agriculture.

Reducing decay in citrus fruits with borax. J. R. Winston, Bureau of Plant Industry. 32 p., illus. (T. B. 488T.) Price, 5¢.

Although the production of citrus fruits is confined to relatively small areas in a few States, the market for the crop is Nation-wide and there is a growing export trade as well. The losses from decay developing between the time the fruit is harvested and consumed are often serious and greatly complicate the marketing program.

Alfalfa experiments at Stoneville, Miss. Paul R. Henson and H. L. Westover, Bureau of Plant Industry, in cooperation with the Mississippi State College and Agricultural Experiment Station. 14 p., illus. (T. B. 495T.) Price, 5¢.

The results of these experiments indicate that while some of the failures can be attributed to the use of seed of unadapted varieties, failure to cut at the proper stage of growth, to poor preparation of the seed bed, and to insect and disease injury, the most important factor in the successful production of alfalfa is adequate surface drainage.

### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

National standards for farm products. Bureau of Agricultural Economics. 56 p., illus. (Cir. 8C, rev.) Price, 5¢.

American tobacco types, uses, and markets. Charles E. Gage. 88 p., illus. (Cir. 249C, rev.) Price, 20¢.

Cyanide fumigation of mushroom houses. A. C. Davis and H. V. Claborn, Bureau of Entomology and Plant Quarantine. 10 p., illus. (Cir. 364C.) Price 5¢.

Investigations were for the purpose of comparing the concentrations of hydrocyanic acid gas obtained with the three most common methods of generation and to determine its effectiveness, under conditions encountered in the houses at peak heat, against the insects and mites that attack mushrooms

Studies of ripening of sugarcane in Louisiana and of effect of topping upon yields of cane and sugar per acre. George Arceneaux, Bureau of Plant Industry. 32 p., illus. (Cir. 368C.) Price, 5¢.

Results of studies concerning the rate of ripening of different varieties, the concentration of sugar in various portions of the stalk at periodic intervals, and the effect of removal of varying proportions of the immature upper portion of the stalks on yields of sugar per ton of cane and per acre are summarized in this circular.



A practical laboratory method of making thin cross sections of fibers. J. I. Hardy. 11 p., illus. (Cir. 378C.) Price, 5¢.

Through the use of a recent invention by the writer, a simple laboratory technic has been developed for quickly making thin cross sections of fibers with better definition than is ordinarily obtained by more laborious methods used in conjunction with a microtome.

#### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Forest taxation in the United States. Fred Rogers Fairchild and associates. Forest Service. 681 p. (M. P. 218MP.) Price, 75¢.

This report presents a background of facts about the existing methods of taxation and their relation to forestry. It weighs the effects of taxation on forest management. It develops the principles of sound forest taxation and is based on the requirements of the public interest both in forestry and in taxation.

#### SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Bureau of Animal Industry, Service and Regulatory Announcements. September 1935. Pp. 127-140. (S. R. A.—B. A. I. 341.) ; October 1935. (S. R. A.—B. A. I. 342.) Price, 5¢ each.<sup>1</sup>

Amendment to regulations 17 and 27, B. A. I. Order 211—revised. (Regulations governing the meat inspection of the United States Department of Agriculture). Bureau of Animal Industry. 1 p. (Amendment 2 to B. A. I. Order 211—revised).<sup>2</sup>

Amendment to regulation 24, B. A. I. Order 211—revised. (Regulations governing the meat inspection of the United States Department of Agriculture). Bureau of Animal Industry. 1 p. (Amendment 5 to B. A. I. Order 211—revised).<sup>2</sup>

Packers and Stockyards Act 1921, as amended, 1926 and 1935. General rules and regulations of the Secretary of Agriculture with respect to stockyard owners, market agencies, dealers, and licensees. Effective on and after November 25, 1935. Bureau of Animal Industry. 18 p. (B. A. I. Order 357).<sup>2</sup>

Notices of judgment under the Food and Drugs Act. Food and Drug Administration. Pp. 261-326. (N. J., F. D. 23626-23825) ; pp. 327-393. (N. J., F. D. 23826-24000) ; pp. 13-88. (N. J., F. D. 24026-24125) ; pp. 89-174. (N. J., F. D. 24126-24350).<sup>2</sup>

Prosecutions and seizures under the interstate clause (Sec. 6) of the Federal Seed Act. (Jan. 1, 1935, to June 30, 1935; 70-90), Bureau of Plant Industry. 6 p. (S. R. A.—B. P. I. 21.)<sup>2</sup>

#### SOIL SURVEYS

These reports consist of two parts: (1) a soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Kansas, Bourbon County. (No. 12, series 1931.) 29 p., illus. Price, 30¢.

#### OTHER PUBLICATIONS

The edible passion fruit in Hawaii. W. T. Pope. 22 p., illus. (Hawaii Bull. 74.) Price, 5¢.

The passion fruit may be used in many ways for food and beverage purposes and it may find a market both in Hawaii and on the mainland of the United States.

No insect pests or plant diseases have yet been reported as seriously attacking passion fruit plants in Hawaii.

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>2</sup> These may be obtained from the issuing bureau.



Indicate below, by numbers **IN NUMERICAL ORDER**, bulletins desired. In order to assure prompt delivery, detach this frank and return in stamped envelop to United States Department of Agriculture, Office of Information, Washington, D. C. List no more than five publications. If more are desired, please apply to Superintendent of Documents, Government Printing Office, Washington, D. C., enclosing remittance to cover cost of publication.

Farmers' Bulletins	Leaflets	Other publications

- Report of the Chief of the Bureau of Dairy Industry, 1935. O. E. Reed. 27 p. Price, 5¢.
- Report of the Chief of the Bureau of Home Economics, 1935. Louise Stanley. 13 p. Price, 5¢.
- Report of the Chief of the Food and Drug Administration, 1935. W. G. Campbell. 25 p. Price, 5¢.
- Report of the Chief of the Office of Experiment Stations, 1935. James T. Jardine. 8 p. Price, 5¢.
- Report of the Chief of the Weather Bureau, 1935. W. R. Gregg. 13 p. Price, 5¢.
- Report of the Director of Information, 1935. M. S. Eisenhower. 16 p. Price, 5¢.
- Report of the Solicitor, 1935. Seth Thomas. 28 p. Price, 5¢.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 19, no. 11, November 1, 1935. Price, 5¢ a copy; 25¢ a year, domestic; 45¢ a year, foreign.<sup>1</sup>

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Crops and markets. Vol. 12, no. 10, October 1935. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscription, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>1</sup>

Extension service review. Vol. 6, no. 11, November 1935. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.<sup>1</sup>

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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Journal of agricultural research. Price, \$3.25 a year, domestic; \$4.75 a year, foreign. Each issue, 15¢, domestic; 20¢, foreign. Reprints, 5¢, domestic; 8¢, foreign.<sup>1</sup> Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

Vol. 51, no. 4. August 15, 1935. Illus.

Contents:

- Phosphorus content and buffer capacity of plant sap as related to the physiological effect of phosphorus fertilizers in fibrous low-moor peat (Fla.-17). J. R. Neller.
- Composition of the leaves and stalks of barley at successive stages of growth with special reference to the formation of lignin (E-63). Max Phillips and M. J. Goss.
- The distribution and condition of phosphorus in three horizons of a differentially fertilized Hagerstown clay loam soil planted to apple trees in metal cylinders (Pa.-52). Walter Thomas.
- A comparison of *Leptosphaeria salvinii* and *Helminthosporium sigmoideum irregularare* (Ark.-21). E. M. Cralley and E. C. Tullis.
- Comparative toxicity of *Anabesine* and nicotine sulphates to insects (N. J.-29). Joseph M. Ginsburg, John B. Schmitt, and Philip Granett.
- The toxicity of optically active and inactive dihydrodeguelins (K-263). W. A. Gersdorff.
- A new bacterial species isolated from strawberries (G-979). Helen F. Smart.
- Chemical composition of canned peas of two varieties of different sizes and grades (Wis.-71). W. S. Thompson and W. H. Peterson.
- Pubescent and glabrous characters of soybeans as related to resistance to injury by the potato leafhopper (G-974). H. W. Johnson and E. A. Hollowell.

Monthly weather review. Vol. 63, no. 8, August 1935. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.<sup>1</sup> Not for general distribution.

Public roads. Vol. 16, no. 8, October 1935. Price 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.<sup>1</sup>

Soil conservation. Vol. 1, no. 4, November 1935. Price, 10¢ a copy; \$1.00 per year, domestic.<sup>1</sup>

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 45-48, November 5-26, 1935. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>1</sup>

AGRICULTURAL ADJUSTMENT ADMINISTRATION

G-49. What countries shall supply the world with its cotton? 8 p.<sup>2</sup>

The rye situation and the 1936-39 rye production adjustment program. Commodity Information Series—Rye Leaflet no. 1. 8 p.<sup>2</sup>

<sup>1</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

<sup>2</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.



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### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Strawberry varieties in the United States. George M. Darrow and George F. Waldo, Bureau of Plant Industry. 30 p., illus. (F. B. 1043F., rev.) Price, 5¢.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Strength and related properties of woods grown in the United States. L. J. Markwardt and T. R. C. Wilson, Forest Service. 99 p., illus. (T. B. 479T.) Price, 25¢. (Paper cover.)

Bollweevil control with calcium arsenate on field plots in Madison Parish, La., from 1920 to 1934. M. T. Young, Bureau of Entomology and Plant Quarantine. 24 p. (T. B. 487T.) Price, 5¢.

Soil moisture and irrigation investigations in eastern apple orchards. J. R. Magness, E. S. Degman, and J. R. Furr, Bureau of Plant Industry. 36 p., illus. (T. B. 491T.) Price, 5¢.

### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

The camphor scale. A. W. Cressman and H. K. Plank, Bureau of Entomology and Plant Quarantine. 20 p., illus. (Cir. 365C.) Price, 5¢.

Development of phoma rot of tomatoes in transit and in storage. Alice A. Nightingale and G. B. Ramsey, Bureau of Plant Industry. 8 p. (Cir. 371C.) Price, 5¢.

Fumigation of fresh fruit to destroy the adult Japanese beetle. Max R. Osborn and J. William Lipp, Bureau of Entomology and Plant Quarantine. 30 p., illus. (Cir. 373C.) Price, 5¢.

The Katahdin, Chippewa, and Golden potatoes. C. F. Clark and F. J. Stevenson, Bureau of Plant Industry. 12 p., illus. (Cir. 374C.) Price, 5¢.

Vernalization experiments with forage crops. Roland McKee, Bureau of Plant Industry. 12 p., illus. (Cir. 377C.) Price, 5¢.

The farm real estate situation, 1934-35. B. R. Stauber and M. M. Regan, Bureau of Agricultural Economics. 52 p., illus. (Cir. 382C.) Price, 5¢.

### MISCELLANEOUS CIRCULARS

These circulars include those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department. The series closed with no. 110 and is replaced by the Miscellaneous Publications series.

Notice of modification of the United States standards for rosin and promulgation of the modified standards. H. A. Wallace. 1 p. (Misc. Cir. 22MC, Supp. 7.)



## MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

The agricultural outlook for 1936. Bureau of Agricultural Economics, assisted by representatives of Agricultural Adjustment Administration, the Extension Service, and the State agricultural colleges and extension services. 144 p. (M. P. 235MP.) Price, 10¢.

## SOIL SURVEYS

These reports consist of two parts: (1) a soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

New Mexico, the Lovington area. (No. 2, series 1932.) 21 p., illus. Price, 50¢.  
Oklahoma, Kiowa County. (No. 14, series 1931.) 39 p., illus. Price, 35¢.

## SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Amendment to regulation 18, section 6, paragraph 2, B. A. I. Order 211—revised. (Regulations governing the meat inspection of the United States Department of Agriculture.) Bureau of Animal Industry. 1 p. (Amendment 4 to B. A. I. Order 211—revised.)<sup>1</sup>

Amendment to regulations 11, 16, 17, and 18, B. A. I. Order 211, revised (regulations governing the meat inspection of the United States Department of Agriculture). Bureau of Animal Industry. 1 p. (Amendment 7 to B. A. I. Order 211, revised.)<sup>1</sup>

Rule 1, revision 34—To prevent the spread of splenetic or tick fever in cattle. Effective on and after Dec. 1, 1935. Bureau of Animal Industry. 2 p. (B. A. I. Order 358.)<sup>1</sup>

Notices of judgment under the Caustic Poison Act. Food and Drug Administration. 4 p. (N. J., C. P. 26-33.)<sup>1</sup>

Notices of judgment under the Insecticide Act. Food and Drug Administration. Pp. 215-228. (N. J., I. F. 1357-1375.)<sup>1</sup>

## OTHER PUBLICATIONS

An economic and statistical analysis of highway-construction expenditures. C. F. Rogers, R. E. Hertel, and R. W. Kruser, Bureau of Public Roads. 56 p., illus. Price, 15¢.

Report of the Chief of the Bureau of Agricultural Economics, 1935. A. G. Black. 27 p. Price, 5¢.

Report of the Chief of the Bureau of Agricultural Engineering, 1935. S. H. McCrory. 22 p. Price, 5¢.

Report of the Chief of the Bureau of Animal Industry, 1935. J. R. Mohler. 55 p. Price, 5¢.

Report of the Chief of the Bureau of Biological Survey, 1935. J. N. Darling. 51 p. Price, 5¢.

Report of the Chief of the Bureau of Chemistry and Soils, 1935. Henry G. Knight. 44 p. Price, 5¢.

Report of the Chief of the Bureau of Plant Industry, 1935. Frederick D. Richey. 40 p. Price, 5¢.

<sup>1</sup> These may be obtained from the issuing bureau.

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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Farmers' Bulletins	Leaflets	Other publications

Report of the Chief of the Bureau of Public Roads, 1935. Thomas H. MacDonald. 60 p. Price, 5¢.

Report of the Chief of the Grain Futures Administration, 1935. J. W. T. Duvel. 8 p. Price, 5¢.

Report of the Chief of the Forest Service, 1935. F. A. Silcox. 55 p. Price, 5¢.

Report of the Chief of the Soil Conservation Service, 1935. H. H. Bennett. 42 p. Price, 5¢.

Report of the Librarian, 1935. Claribel R. Barnett. 12 p. Price, 5¢.

Report of the Secretary of Agriculture, 1935. Henry A. Wallace. 120 p. Price, 10¢. (Paper cover.)

#### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 19, no. 12, December 1, 1935. Price 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.<sup>2</sup>

Crops and markets. Vol. 12, no. 11, November 1935. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.<sup>2</sup>

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.<sup>2</sup>

Experiment station record. Vol. 73, no. 6, December 1935. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price, 15¢.<sup>2</sup>

A technical view of the world's scientific literature pertaining to agriculture.

Public roads. Vol. 16, no. 9, November 1935. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.<sup>2</sup>

Soil conservation. Vol. 1, no. 5, December 1935. Price, 10¢ a copy; \$1.00 per year, domestic.<sup>2</sup>

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 49-52, Dec. 3-24, 1935. Price, 50¢ a year, domestic; \$1 a year, foreign.<sup>2</sup>

<sup>2</sup> Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.



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AGRICULTURAL ADJUSTMENT ADMINISTRATION

Agriculture's share in the national income. 37 p.<sup>3</sup>

Balanced production in the corn-hog industry. Commodity Information Series—  
Corn-Hog Leaflet no. 2. 6 p.<sup>3</sup>

How much cotton should America produce in 1936? Commodity Information  
Series—Cotton Leaflet no. 6. 8 p.<sup>3</sup>

Cotton adjustment under A. A. A. Commodity Information Series—Cotton Leaflet  
no. 7. 8 p.<sup>3</sup>

G-41, rev. The processing tax. 16 p.<sup>3</sup>

<sup>3</sup> These may be obtained free upon application to the Agricultural Adjustment Administration.